

TRANSMITTAL OF FORMAL DRAWINGS

Docket No.
198-1226

2786

In Re Application Of: Viswanathan Babu et al.

Serial No.

Filing Date

Batch No.

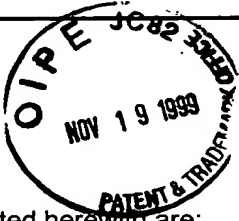
Examiner

Art Unit

09/432,485

November 1, 1999

Invention: PAINT SPRAY PARTICLE TRAJECTORY ANALYSIS METHOD AND SYSTEM



Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

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Transmitted herewith are:

8 & 2 copies sheets of formal drawing(s) for this application.

Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawing.

Signature

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Dated: November 15, 1999

I certify that this document and attached formal drawings are being deposited on Nov. 15, 1999 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Daniel H. Bliss

Typed or Printed Name of Person Mailing Correspondence

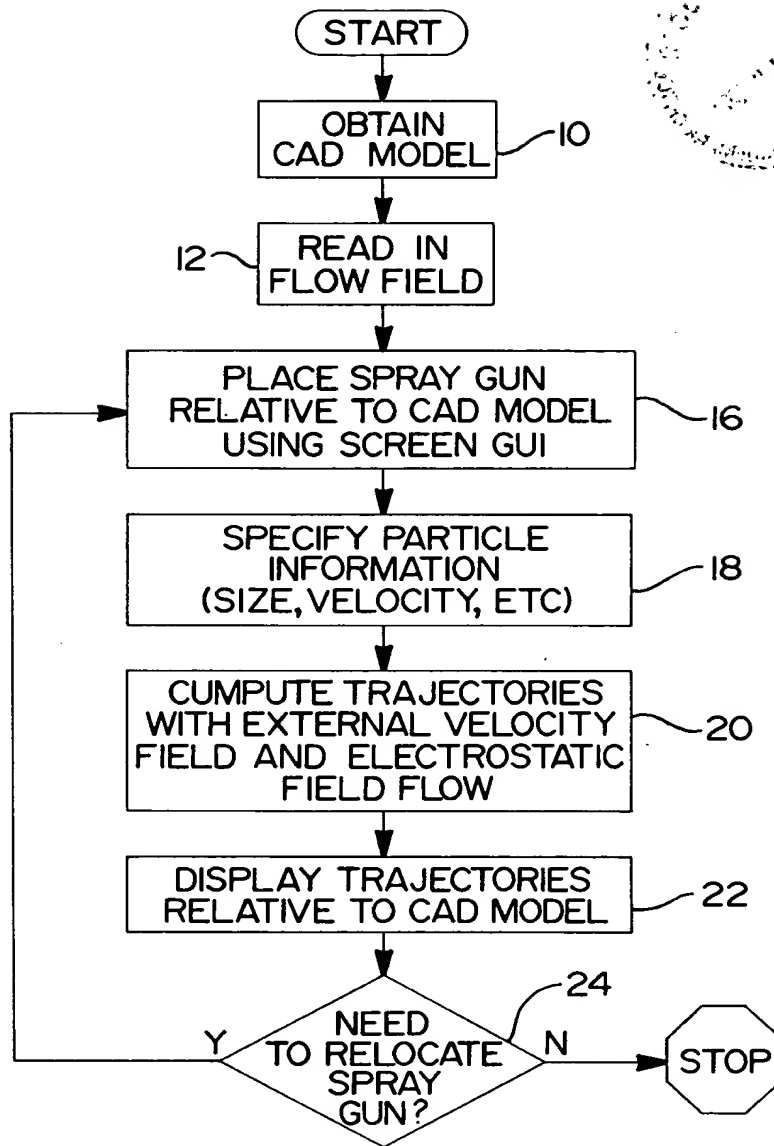


FIG 1

FIG 2

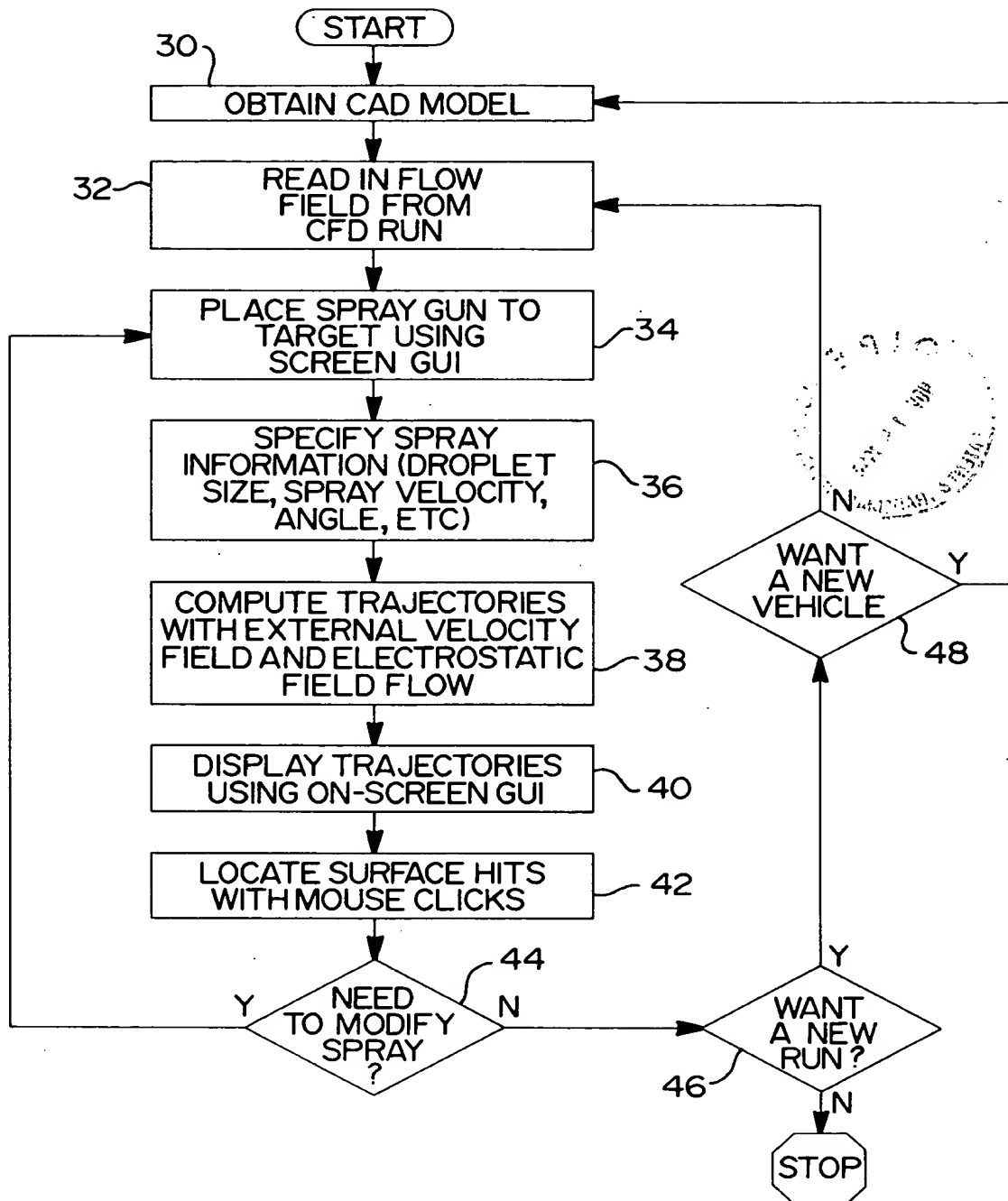


FIG 3

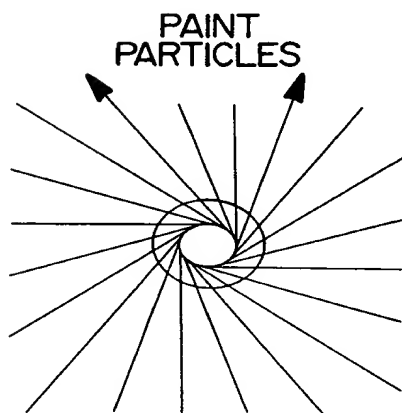
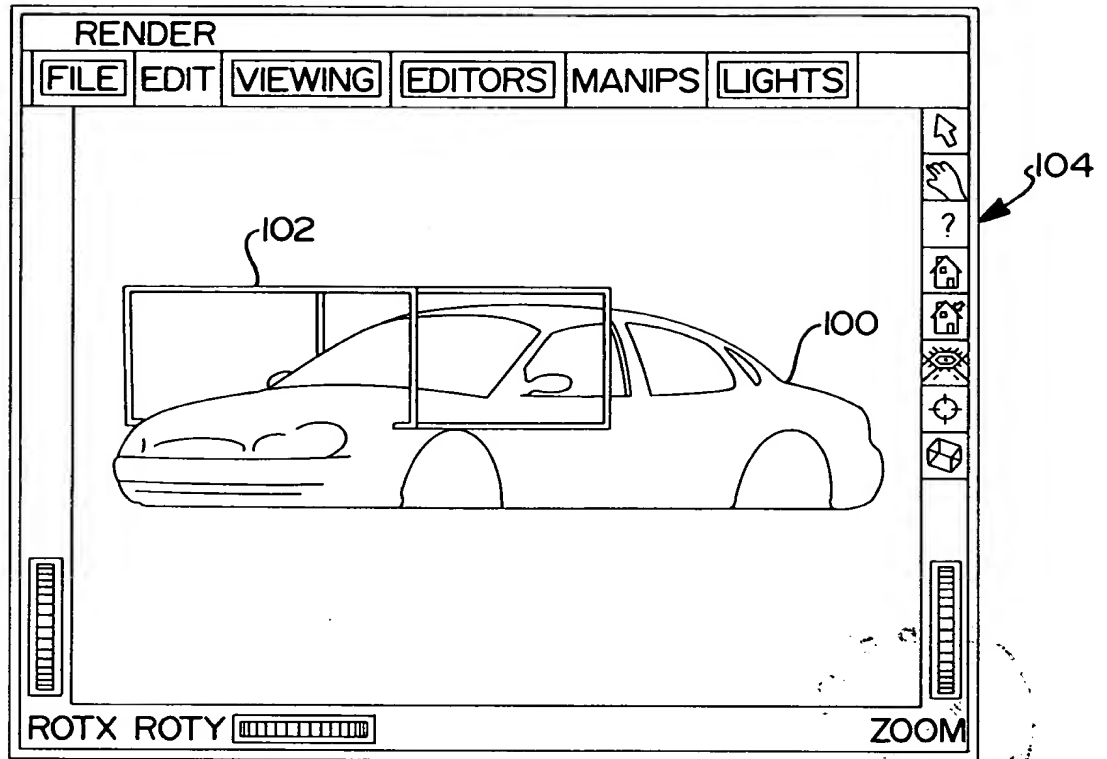


FIG 8A

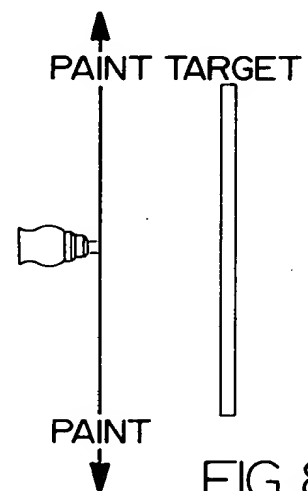


FIG 8B

FIG 4

READ MME RESULTS		HELP	
FILENAME		SHOW GRID <input type="checkbox"/>	
<p>TIMESTEP <input type="checkbox"/> PEEK <input type="checkbox"/> NEXT <input type="checkbox"/> PREV <input type="checkbox"/></p> <p>1600e+04</p> <p>4000 1600</p> <p>UNITS <input checked="" type="checkbox"/> USER <input type="checkbox"/> MKS <input type="checkbox"/> DIMLESS <input type="checkbox"/> LATTICE <input type="checkbox"/></p> <p>CROP <input type="checkbox"/> PREVIEW <input type="checkbox"/> TOOTHING <input type="checkbox"/> OFF <input type="checkbox"/></p>		<p>MIN X MIN Y MIN Z</p> <p>9472 6648 13064</p> <p>10128 6976 13472</p> <p>9472 6648 12656</p> <p>MAX X MAX Y MAX Z</p> <p>10128 6976 13472</p> <p>10128 6976 13472</p> <p>9472 6648 12656</p>	
<p>OUTPUT A <input type="checkbox"/> VELOCITY <input type="checkbox"/></p> <p>OUTPUT B <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT C <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT D <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT E <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT F <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT G <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT H <input type="checkbox"/> NONE <input type="checkbox"/></p> <p>OUTPUT I <input type="checkbox"/> NONE <input type="checkbox"/></p>			

FIG 5

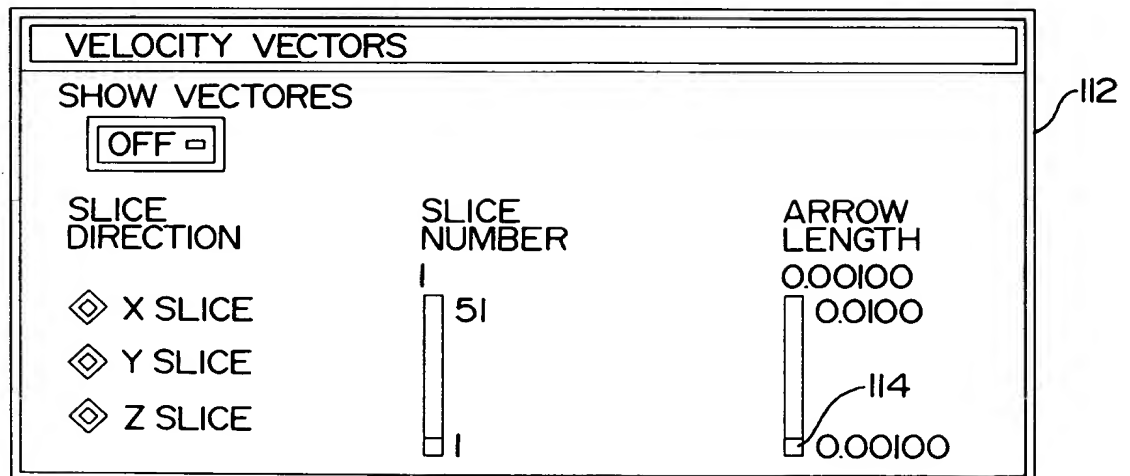
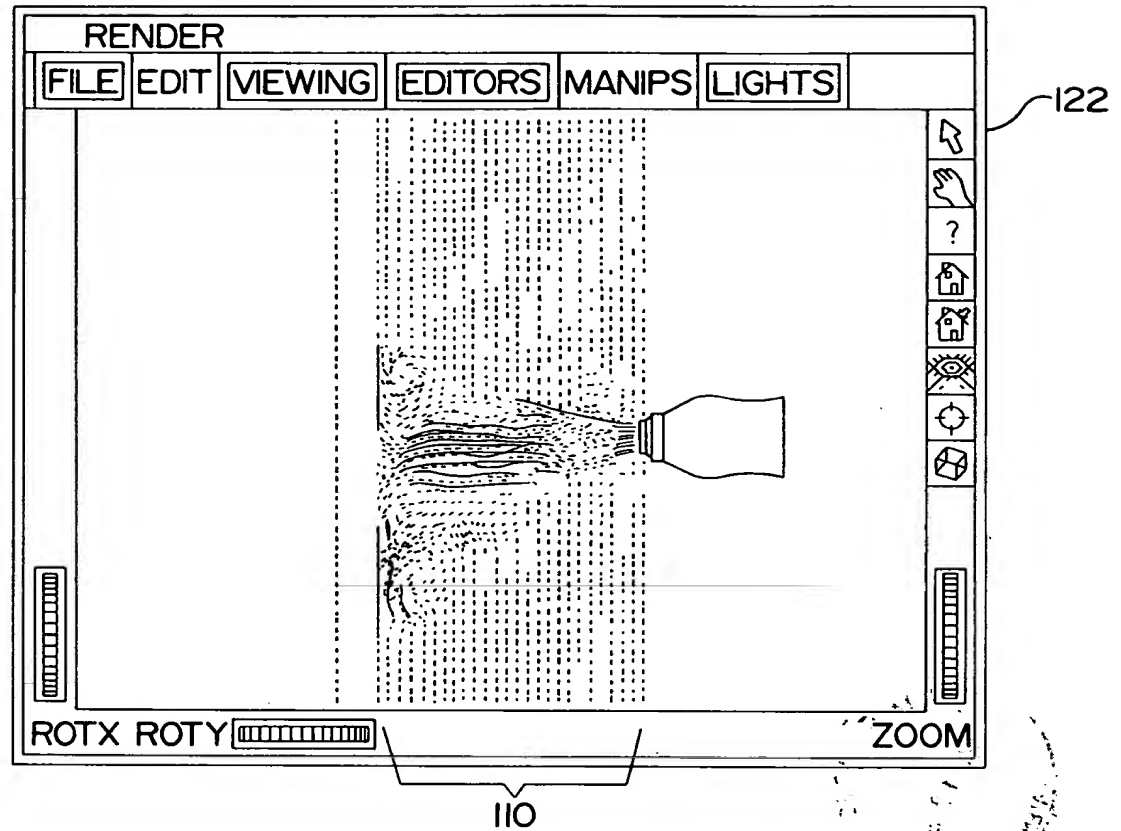


FIG 6

FIG 7

SPRAY

PARTICLE TRACK

◇ DONE

◇ START 138

140 TRACK DYNAMICS

148 ◇

150 ◇

TRACKS

HIDE 146

DIAMETER

0.00158 126

TIMESTEP

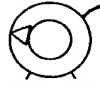
0.0001

DENSITY

915.0 128

X

23.23




116

22.89 24.48

Y

16.26




118

16.07 16.86

Z

31.80

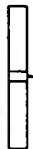


120

31.57 32.56

BASE ANGLE

5.00




180.

-180.

132

INCLINATION ANGLE

230




180.

0.00

130

INITIAL VELOCITY

800



50.0

0.00

NUMBER OF PARTICLES

5 134

SPRAY ANGLE

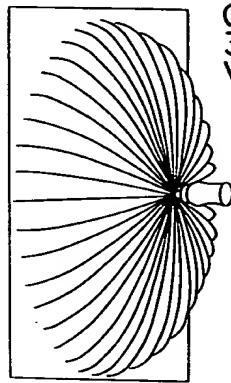
20.0

180.

0.00 136

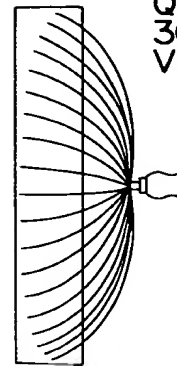
121

FIG 9A



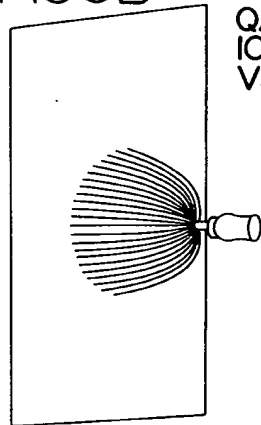
Q/M=5
30000 RPM
VS=30 M/S

FIG 9D



QM=5
30000 RPM
VS=10 M/S

FIG 9B

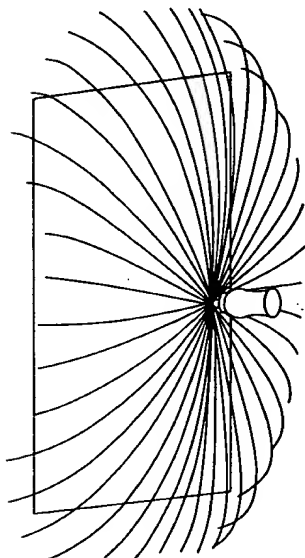


Q/M=5
10000 RPM
VS=30M/S



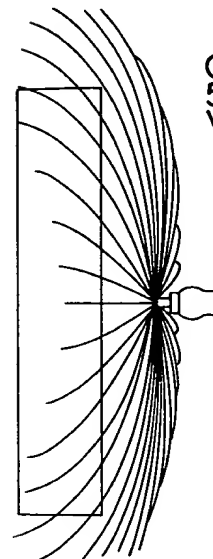
QM=5
10000 RPM
VS=10M/S

FIG 9E



Q/M=5
50000 RPM
VS=30M/S

FIG 9C



QM=5
50000 RPM
VS=10M/S

FIG 9F

FIG 10

